

TP-13

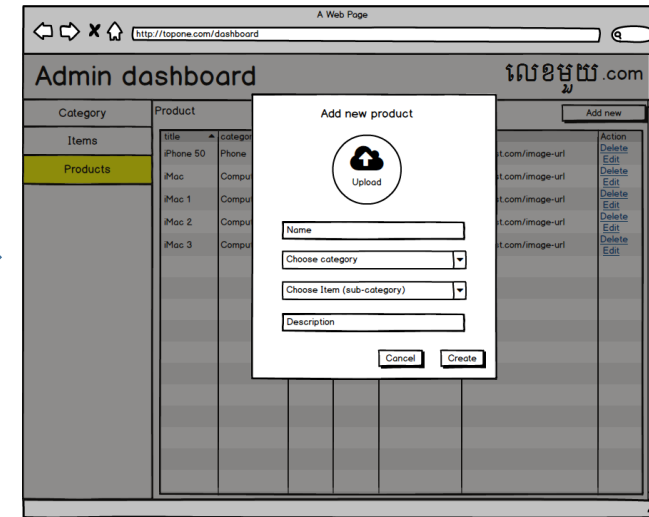
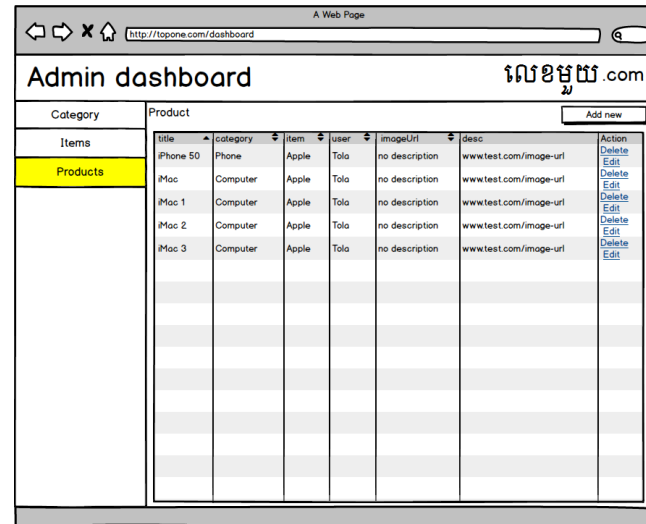
# **VueJS, NodeJS**

CRUD APIs, Mongoose, Admin dashboard

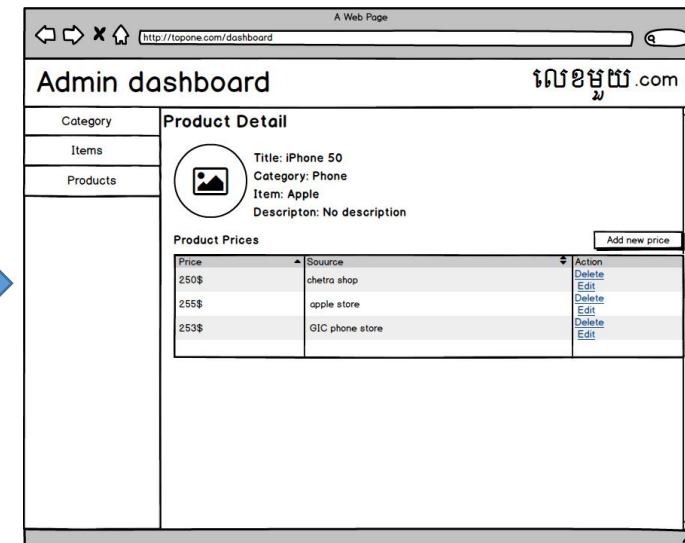
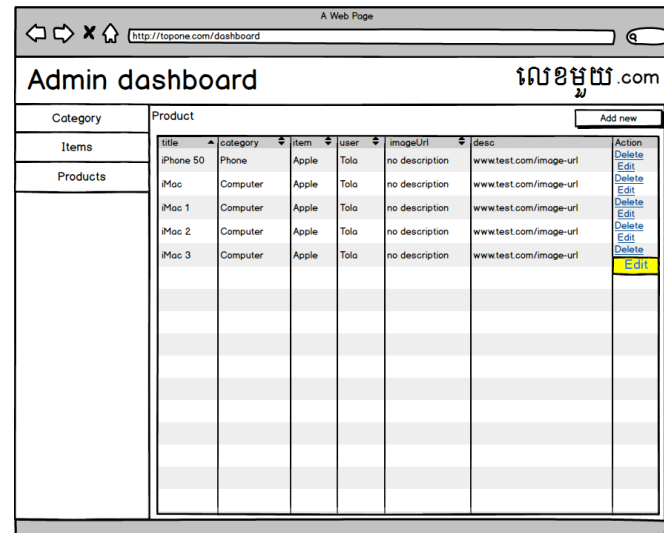
# TP13 Exercise

## TP13.1: Design a basic admin dashboard to manage product/product prices

Create a new product



Add a new price to a product

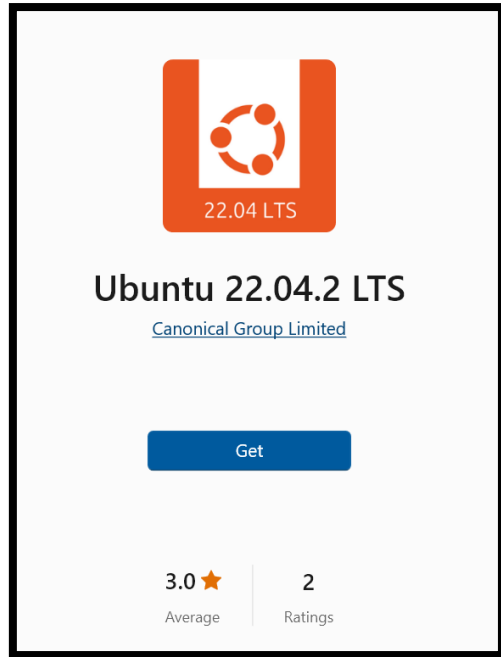


# Getting to learn another new Thing 😊

“Multer: upload files with Node.js and Express”



# Install Redis for permanent session store



Download for  
windows store

- Install redis on your linux as a sub-system, run following command in your Ubuntu system.

```
sudo apt-get update  
sudo apt-get install redis
```

- Managing your redis by following commands in Ubuntu sub-system:

```
sudo service redis-server start  
sudo service redis-server restart  
Sudo service redis-server stop
```

- Default accessible redis port (**6379**):

```
createClient({url: 'redis://127.0.0.1:6379', legacyMode: true})
```

# How to upload my image to a server?? 🤔

## Tutorial source:

<https://blog.logrocket.com/multer-nodejs-express-upload-file/>

## ❖ Creating our frontend

### index.html

```
<body>
  <div class="container">
    <h1>File Upload</h1>
    <form id='form'>
      <div class="input-group">
        <label for='name'>Your name</label>
        <input name='name' id='name' placeholder="Enter your name" />
      </div>
      <div class="input-group">
        <label for='files'>Select files</label>
        <input id='files' type="file" multiple>
      </div>
      <button class="submit-btn" type='submit'>Upload</button>
    </form>
  </div>
  <script src='./script.js'></script>
</body>
```

### script.js

```
// script.js
const form = document.getElementById("form");

form.addEventListener("submit", submitForm);

function submitForm(e) {
  e.preventDefault();
  const name = document.getElementById("name");
  const files = document.getElementById("files");
  const formData = new FormData();
  formData.append("name", name.value);
  for(let i =0; i < files.files.length; i++) {
    formData.append("files", files.files[i]);
  }
  fetch("http://localhost:5000/upload_files", {
    method: 'POST',
    body: formData,
    headers: {
      "Content-Type": "multipart/form-data"
    }
  })
  .then((res) => console.log(res))
  .catch((err) => ("Error occurred", err));
}
```



## ❖ Setting up the server

```
npm init -y
```

```
npm i express
```

### server.js

```
// server.js
const express = require("express");

const app = express();
app.use(express.json());
app.use(express.urlencoded({ extended: true }));

app.post("/upload_files", uploadFiles);
function uploadFiles(req, res) {
  console.log(req.body);
}
app.listen(5000, () => {
  console.log(`Server started...`);
});
```

## ❖ Install and configure Multer

```
npm i multer
```

### server.js

```
const multer = require("multer");
const upload = multer({ dest: "uploads/" });
...
```

we'll use Multer to intercept incoming requests on our API and parse the inputs to make them available on the `req` object:

```
app.post("/upload_files", upload.array("files"), uploadFiles);

function uploadFiles(req, res) {
  console.log(req.body);
  console.log(req.files);
  res.json({ message: "Successfully uploaded files" });
}
```

## ❖ Here is what you got

```
app.post("/upload_files", upload.array("files"), uploadFiles);

function uploadFiles(req, res) {
  console.log(req.body);
  console.log(req.files);
  res.json({ message: "Successfully uploaded files" });
}
```

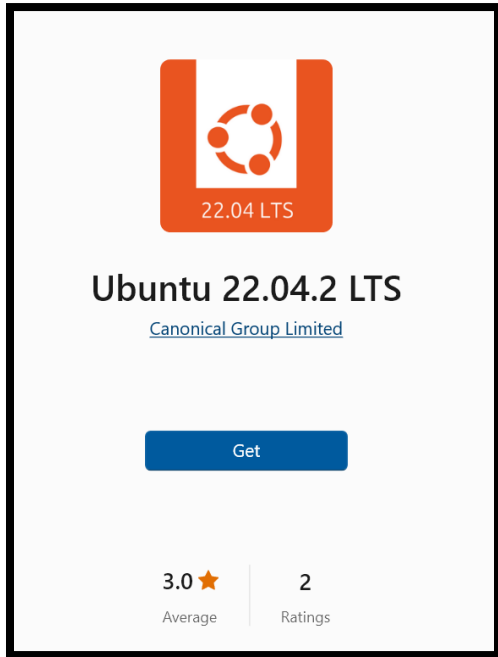


```
Server started...
[Object: null prototype] { name: 'Images' }
[
  {
    fieldname: 'files',
    originalname: 'undraw_confirmed_81ex.svg',
    encoding: '7bit',
    mimetype: 'image/svg+xml',
    destination: 'uploads/',
    filename: '5cb132f75d66fe877a7e9974bfcdf47b',
    path: 'uploads/5cb132f75d66fe877a7e9974bfcdf47b',
    size: 6128
  },
  {
    fieldname: 'files',
    originalname: 'Atomic_Habits_-_Chapter_1_Excerpt.pdf',
    encoding: '7bit',
    mimetype: 'application/pdf',
    destination: 'uploads/',
    filename: '901a1b930918ca9df759ae5092c10779',
    path: 'uploads/901a1b930918ca9df759ae5092c10779',
    size: 6829248
  },
  {
    fieldname: 'files',
    originalname: 'WhatsApp Image 2020-12-16 at 09.30.13.jpeg',
    encoding: '7bit',
    mimetype: 'image/jpeg',
    destination: 'uploads/',
    filename: '2920d45355c44410e82778b8316ae662',
    path: 'uploads/2920d45355c44410e82778b8316ae662',
    size: 30517
  }
]
```

Good luck 🍀



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- Default accessible redis port (**6379**):

```
createClient({url: 'redis://127.0.0.1:6379', legacyMode: true})
```

```
[nodemon] 2.0.15  
[nodemon] to restart at any time, enter `rs`  
[nodemon] watching path(s): *.*  
[nodemon] watching extensions: js,mjs,json  
[nodemon] starting `node index.js`  
App available on http://localhost:3001  
Redis connected~  
MongoDB connected~
```

# In-class practice:: Finish the remaining APIs in category (+ bonus score)

- **Get by ID**

`http://localhost:3001/category/id/:id`

- **Get all**

`http://localhost:3001/category/all`

- **Update**

`http://localhost:3001/category/update`

- **Delete**

`http://localhost:3001/category/delete`

- ✓ **Create**

`http://localhost:3001/category/create`

- ✓ **Get categorized items**

`http://localhost:3001/category/delete`

# In-class practice:: Finish the remaining APIs in item (+ bonus score)

- **Get by ID**

`http://localhost:3001/item/id/:id`

- **Get all**

`http://localhost:3001/item/all`

- **Update**

`http://localhost:3001/item/update`

- **Delete**

`http://localhost:3001/item/delete`



- ✓ **Create**

`http://localhost:3001/item/create`

# In-class practice:: Finish the remaining APIs in product (+ bonus score)

- **Get by ID**

`http://localhost:3001/product/id/:id`

- **Get all**

`http://localhost:3001/product/all`

- **Update**

`http://localhost:3001/product/update`

- **Delete**

`http://localhost:3001/product/delete`



- ✓ **Create**

`http://localhost:3001/product/create`

# Practice:: Create an API to add a price in a product

routes\price.js (http://localhost:3001/price/create)

```
const priceService = require('../services/price');
```

```
router.post('/create', auth.ensureSignedIn, async (req, res) => {  
  const { product, price, source } = req.body;  
  const result = await priceService.create({ product, price, source })  
  res.json(result);  
})
```

services\price.js

```
const Prices = require("../models/prices");
```

```
const create = async (newPrice) => {  
  // to do  
  const createdPrice = await Prices.create(newPrice);  
  return createdPrice;  
}
```

models\prices.js (Price Model)

```
var pricesSchema = new mongoose.Schema({  
  product: {  
    type: Schema.Types.ObjectId,  
    ref: 'Products',  
    required: true  
  },  
  price: Number,  
  source: String,  
}, {  
  timestamps: true,  
});
```

- **Get all by product Id**

http://localhost:3001/price/product-id/:pid

- **Update**

http://localhost:3001/price/update

- **Delete**

http://localhost:3001/price/delete